



Date:

June 26, 2007

To:

Honorable Chairman Bruno A. Barreiro

and Members, Board of County Commissioners

From:

George Burgess County House Agenda Item No 8(R)3(B)

Subject:

Request to Advertise for Design and Construction Management Services for the Central District

Wastewater Treatment Plant Water Reclamation Facility - Contract No: E07-WASD-03

Recommendation

This Request to Advertise for consultant selection has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval pursuant to Section 2-8.1 of the Code of Miami-Dade County. The consultant is to provide planning, design, permitting and construction management services for the construction of a 1 million gallons per day (MGD) Water Reclamation Facility at the MDWASD Central District Wastewater Treatment Plant (CDWWTP).

Scope

PROJECT NAME:

Design and Construction Management Services for the CDWWTP Water

Reclamation Facility

PROJECT NO:

E07-WASD-03

CONTRACT NO:

E07-WASD-03

PROJECT DESCRIPTION:

The consultant is to provide planning, design, permitting and construction management services for the construction of a 1 MGD Water Reclamation Facility at the MDWASD CDWWTP. This water reclamation facility will use the treated effluent to irrigate the Crandon Park Golf Course and other

green areas in the Village of Key Biscayne.

PROJECT LOCATION:

3989 Rickenbacker Causeway, Key Biscayne, FI 33149

PRIMARY COMMISSION

DISTRICT:

District 7

Carlos A. Gimenez

APPROVAL PATH:

Board of County Commissioners

OCI A&E PROJECT

NUMBER:

E07-WASD-03

USING DEPARTMENT:

Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT:

Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE:

SOURCE

Future WASD Revenue Bonds 2009S, Future Bond Issue, Plant Expansion

Wastewater Fund and WASD Revenue Bonds Sold

PTP FUNDING:

No

GOB FUNDING:

No

CAPITAL BUDGET

PROJECT:

BUDGET PROJECT / DESCRIPTION

965630-WASTEWATER TREATMENT PLANTS EFFLUENT

REUSE

Funding Year: Adopted Capital Budget Book for Book Page: 314

2006-2007 from Prior Years' Funding

PROJECT TECHNICAL CERTIFICATION **REQUIREMENTS:**

TYPE CODE DESCRIPTION

Prime 6.03 WATER AND SANITARY SEWER SYSTEMS -

WATER AND SANITARY SEWAGE TREATMENT

ESTIMATE

\$2,530,000.00

PLANTS

Prime 11.00 GENERAL STRUCTURAL ENGINEERING

Prime 17.00 ENGINEERING CONSTRUCTION MANAGEMENT

Other 9.02 SOILS, FOUNDATIONS AND MATERIALS

TESTING - GEOTECHNICAL AND MATERIALS

ENGINEERING SERVICES

Other 12.00 GENERAL MECHANICAL ENGINEERING

Other 13.00 GENERAL ELECTRICAL ENGINEERING

Other 15.01 SURVEYING AND MAPPING - LAND SURVEYING

Other 16.00 GENERAL CIVIL ENGINEERING

ESTIMATED CONTRACT

PERIOD:

Calendar days

1460 Consecutive Calendar Days = 4 years: Planning - Design = 1 year;

Permitting - Procurement = 1 year: Construction - Startup = 2

vears

ESTIMATED CONTINGENCY 146 Consecutive

PERIOD:

Calendar Davs

IG FEE INCLUDED IN BASE Yes

CONTRACT:

ART IN PUBLIC PLACES:

No

BASE ESTIMATE:

\$2,300,000.00

TYPE PERCENT AMOUNT COMMENT

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):

PSA 10% \$230,000.00

TOTAL DEDICATED ALLOWANCE:

\$0.00

COST ESTIMATE:

\$2,530,000.00

Track Record / Monitor

EXPLANATION:

MINIMUM QUALIFICATIONS No

EXCEED LEGAL REQUIREMENTS:

REVIEW COMMITTEE:

MEETING DATE: 4/11/2007 SIGNOFF DATE: 4/11/2007

RESPONSIBLE WAGES:

No

REVIEW COMMITTEE ASSIGNED CONTRACT **MEASURE GOAL**

COMMENT

MEASURES:

CBE

25.00% CBE

CWF

0.00% Not Applicable

MANDATORY CLEARING

HOUSE:

N/A

CONTRACT MANAGER NAME/PHONE/EMAIL:

Howard J. Fallon Jr.

786-552-8225

HJFAL01@miamidade.gov

PROJECT MANAGER

NAME/PHONE/EMAIL:

Patty David

786-552-8040

pattvd@miamidade.gov

Background

BACKGROUND:

This water reclamation facility is a requirement of Miami-Dade County's Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District executed in May 2006, under which the County has committed to developing alternative water supplies to meet its increased demands from sources other than the Biscayne Aguifer. Flows from the proposed 1 MGD Water Reclamation Facility at MDWASD's CDWWTP have been submitted to the South Florida Water Management District as part of the Alternative Water Supply requirement with a

completion schedule in December 2010.

This water reclamation facility will use the treated effluent to irrigate the Crandon Park Golf Course and other green areas in the Village of Key

Biscavne.

BUDGET APPROVAL FUNDS AVAILABLE:	OSBM DIRECTOR	5-30-07 95 DATE
APPROVED AS TO LEGAL SUFFICIENCY:	COUNTY ATTORNEY	5-30-07 DATE
	ASSISTANT COUNTY MANAGER	5/31/07 DATE
CLERK DATE		

DATE

Request to Advertise Design and Construction Management Services for the Central District Wastewater Treatment Plant Water Reclamation Facility Project No. E07-WASD-03

BUDGET PROJECT AND

DESCRIPTION:

965630 - Wastewater Treatment Plants Effluent Reuse

FUNDING SOURCE:

Future WASD Revenue Bonds 2009S

Future Bond Issue

INDEX CODES:

EW623 Plant Expansion Wastewater Fund

EW643 WASD Revenue Bonds Sold

ASSISTANT DIRECTOR, ENGINEERING:

ROUARDO A. VEGA, P.E.

DATE

DEPT. BUDGET OFFICER

PEDRO VELAR

DATE

ASSISTANT DIRECTOR,

FINANCE

DIANE CAMACHO

DATE

DEPUTY DIRECTOR, OPERATIONS

JOSEPH A. RUIZ, JR.

DATE

STRATEGIC AREA:

TOTAL EXPENDITURES:

Neighborhood and Unincorporated Area Municipal Services

165

150

1,500

0

0

2,664

11,047

15,526

DEPARTMENT: Water and Sewer	Inincorporate	ed Area Munio	cipal Services				******	FUNDED PR (dollars in the	OJECTS **** ousands)
WASTEWATER TREATMENT PLANTS EFFLUE DESCRIPTION: Begin planning and construction LOCATION: Systemwide	NT REUSE	for an effluen	t reuse syster	n at wastewa	ter treatment	plants		PROJEC	T # 965630
Systemwide ESTIMATED ANNUAL OPERATING IMPAC	T: Minimal			DISTRICT (LOCATED: s) SERVED:	Systemwide Systemwide			
REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09		2010-11			
Wastewater Connection Charges	80	0	0	. 0	2003-10	2010-11	2011-12		
WASD Revenue Bonds Sold	22,934	0	0	0	0	0	0 0	0	80 22,934
TOTAL REVENUE:	23,014	0	0	0	0	0	0	0	23,014
EXPENDITURE SCHEDULE:	PRIOR	2006-07	2227.00				Ū	Ů	23,014
Planning and Design	26	572	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Construction	265		1,496	0	0	0	0	0	2,094
		5,716	14,939	0	0	0	0	0	20,920
TOTAL EXPENDITURES:	291	6,288	16,435	0	0	0	0	0	23,014
WASTEWATER TREATMENT PLANTS MISCELLA DESCRIPTION: Upgrade wastewater treatment pla LOCATION: Wastewater Treatment Plan	ants to meet	GRADES regulatory red	quirements					PROJECT	# 9652061
Systemwide ESTIMATED ANNUAL OPERATING IMPACT:	Minimal			DISTRICT LO		Systemwide Systemwide			
REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	
Wastewater Connection Charges	462	0	0	0	0	0		FUTURE	TOTAL
WASD Revenue Bonds Sold	1,353	0	0	0	0	0	0	637	1,099
Future WASD Revenue Bonds	0	0	0	0	0	0	0 13,074	0 0	1,353 13,074
OTAL REVENUE:	1,815	0	0	0	0	0	13,074	637	15,526
XPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2040 44	2044 :-		
tanning and Design	15	14	136	0	2009-10	2010-11	2011-12	FUTURE	TOTAL
onstruction	150	136	1,364	0		0	242	1,005	1,412
· ·			.,007	. 0	0	0	2,422	10,042	14,114

BUDGET PROJECT 965630

Project Title: 965630-WASTEWATER TREATMENT PLANTS EFFLUENT REUSE

Project Desc: Begin planning and construction of facilities for an effluent reuse system at wastewater treatment plants

Project \$\$ Start: End: Prior: 06-07: 07-08: 08-09: 09-10: (\$\$ in 000's) 10/1/2003 9/30/2007 291 6,288 16,435 0 0 23,014

Project Type: Capital

CDPWeb Project Milestones (\$ IN 000'S)								
Milestone:	Start:	End:	Prior:	<u>06-07:</u>	07-08:	<u>08-09:</u>	<u>09-10:</u>	<u>Total:</u>
Planning/Design	N/A	N/A	26	572	1,496	0	0	2,094
Construction	<u>N/A</u>	<u>N/A</u>	265	<u>5,716</u>	14,939	<u>0</u>	<u>0</u>	20,920
CDPWeb Project Revenue (\$ IN 000'S)								
Revenue:	Start:	End:	Prior:	<u>06-07:</u>	<u>07-08:</u>	<u>08-09:</u>	<u>09-10:</u>	Total:
Wastewater Connection	N/A	N/A	80	0	0	0	0	80

EXIT

Current Contracts for Project 965630

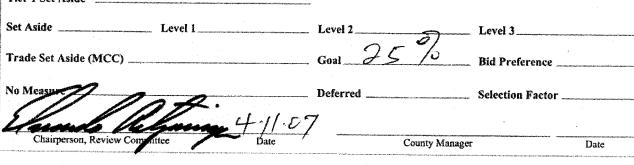
<u>Dept</u>	<u>ContractNo</u>	Contract Name	RTA Budget <u>Allocation A</u>	Award Budget <u>Ilocation</u>	CIIS Award
WS	E07-WASD-02	Design and Construction Manage	\$55,000,000.00	\$0.00	\$0.00
WS	E07-WASD-03	Design and Construction Manage	\$2,530,000.00	\$0.00	\$0.00
<u>WS</u>	E07-WASD-04	Design and Construction Manage	\$3,400,000.00	<u>\$0.00</u>	\$0.00
		Total Allocat	ted: \$60,930,000.00	\$0.00	

There are no SItes for Project 965630



Dept. of Business Development

DEPARTMENT OF BUSINESS DEVELOPMENT		Project Works	heet		
Project/Contract Title:	DESIGN AND CONSTRUC CENTRAL DISTRICT WA REUSE FACILITY (SIC 87	STEWATER TREATM		RC Date	e: 04/11/2007 1-10
Project/Contract No:	E07-WASD-03		Funding Source:	Item No):
Department:	WATER & SEWER DEPAI	RTMENT	VARIOUS		
Estimated Cost of Project/Bio	i: \$2,300,000.00			Resubmittal D	ate(s):
Description of Project/Bid:	TO ESTABLISH A CONTRACT TO MANAGEMENT SERVICES FOR WASTEWATER RESUSE FACILI' RECOMMENDED UPGRADES AN REDUCE EXISTING PLANT EFFI DELIVERY SYSTEMS (AMONGS	THE CONSTRUCTION OF TY. THE SCOPE OF WORK TO EVALUATION OF THE LUENT CHLORIDES TO AC	THE CENTRAL DISTRICT WASTE SHALL ALSO INCLUDE PROCES USE OF THE APPROPRIATE MEN	EWATER TREATMENT PLA SS EVALUATION, IBRANE TECHNOLOGIES 1	
	Contrac	t Measures Recommo	ndation		
	Measure Goal	Program CBE	Goal Percent		
	Ooai	VDL	25.00%	9. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	
SIC 871 - Architectural a SIC 871 - Architectural a Subtrade GENERAL MECHANIC GENERAL ELECTRICA GENERAL CIVIL ENGI	Abalysis AL ENGINEERING L ENGINEERING	for Recommendation Cat. CBE CBE CBE	of a Goal	A consider Fund 4	,
		,			Acres (Construction of Construction of Constru
		Total	\$575,000.00	25.00%	di di wana da
Living Wages: YES	NO X	Notes			
Responsible Wages: YES	NO X				
Ordinance 90-143 is applicable to		0.000 that do not utilize Fe	rdoral Funds		
		MMITTE RECOMN			
Tier 1 Set Aside					The state of the s
Set Aside	Level 1	Level 2	Level 3	-	GOODOO WATER MA
Trade Set Aside (MCC)		Canl 2	E /0		ilirium binahim



1-10

MIAMI-DADE COUNTY, FLORIDA NOTICE TO PROFESSIONAL CONSULTANTS

MIAMI-DADE WATER AND SEWER DEPARTMENT DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR THE CENTRAL DISTRICT WASTEWATER TREATMENT PLANT WATER RECLAMATION FACILITY PROJECT NO. E07-WASD-03

The County Manager, Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, and Chapter 2, Sections 2-8.1 (as amended Ordinance 05-105) and 2-10.4 of the County Code and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (MDWASD) will require professional engineering services from a qualified consultant to provide planning, design, permitting and construction management services for the implementation of a Water Reclamation Facility at the MDWASD Central District Wastewater Treatment Plant with capacity of approximately 1 million gallons per day (MGD) pending finalization of water reclamation application points. Uses of water reclamation facility effluent will include irrigation at the Crandon Park Golf Course and green areas in the Village of Key Biscayne. Treatment facilities are included in the MDWASD Reuse Feasibility Study and the flows have been submitted to the South Florida Water Management District as part of the Alternative Water Supply requirement with a scheduled completion by December, 2010. This requirement is included in the Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District executed in May 2006, under which Miami-Dade County has committed to developing alternative water supplies to meet its increased demands from sources other than the Biscayne Aquifer.

The scope of work shall include process evaluation, including possible inclusion of a part of existing facilities with any recommended upgrades and evaluation of the use of the appropriate membrane technologies to reduce existing plant effluent chlorides to acceptable levels, conceptual design of the delivery systems including pipeline sizing, routing and storage; design of water reclamation pumping station and storage; preparation of complete detailed construction drawings and specifications; detailed cost estimates; attendance at meetings, contract interpretations and clarifications, review of claims and potential change order requests; review and processing of shop drawings, review of schedule of values and as-built drawings, assist in property acquisition; provide permitting services and bidding and construction management services, answering requests for information, start-up assistance and final inspection; utility coordination, surveying, and geotechnical work; prepare operations and maintenance manuals and provide training for operations and maintenance; provide record drawings documentation; provide transactional system integration and database development through design and construction. Design of water reclamation transmission lines will be by others. coordination services are anticipated to include, establish and track project schedule, budget and deadlines, prepare status reports and attend meetings as requested. Included also shall be public information services for coordination with residents and municipalities regarding the water reclamation systems. The total estimated construction cost of the project is \$9 million.

The prime and/or subconsultants are required to have experience with the design and construction management services of least one (1) similar sized facility with the advanced treatment required for this project within the past five (5) years. The MDWASD intends to retain one qualified firm under a non-exclusive Professional Services Agreement. The term of

the contract is for a four (4) year period. Maximum compensation is \$2,300,000 plus contingency in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion. The consultant coordinator for this project is ______ who may be contacted via e-mail at ______ or fax at _____ with copy to the Clerk of the Board.

TECHNICAL CERTIFICATION REQUIREMENTS

Prime

- 6.03 Water and Sanitary Sewage Treatment Plants
- 11.00 General Structural Engineering
- 17.00 Engineering Construction Management

Prime and/or Subconsultants

- 9.02 Geotechnical and Materials Engineering Services
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 15.01 Land Surveying
- 16.00 General Civil Engineering

CBE Goal 20%

BREAKDOWN LIST

		<u>%</u>	CBE%
06.03	Water and Sanitary Sewage Treatment Plants	20 %	
12.00	General Mechanical Engineering	15%	15%
13.00	General Electrical Engineering	15%	5%
17.00	Engineering Construction Management	15%	
11.00	General Structural Engineering	15%	
16.00	General Civil Engineering	10%	5%
09.02	Geotechnical and Materials Engineering Services	5%	
15.01	Land Surveying	5%	
	TOTAL	100%	25%